

APPROVED	O.G. FIG.	SUBCLASS
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1 MSVDEICENTKMGREYALLGNYETSLVYYQGVLLQIQKLL
 41 TSVHEPQRKHQWQTIRQELSQEYEHVKNITKTLNGFKSEP
 81 AAPEPAPNGRAAPFSHHOAAKPAAAEPARDPDVWPPTP
 121 VDHRPSPPYQRAARKDPPRRSEPSKPANRAPGNDRGGRGP
 161 SDRRGDARSGGGGRGGARGSDKDKNRGGKSDKDKKAPSGE
 201 EGDEKKFDPAGYDKDLVENLERDIVORNPNVHWADIAGLT
 241 EAKRLLEEAVVLPLWMPDYFKGIRRPWKGVLMGPPGTGK
 281 TMLAKAVATECGTTFFNVSSASLTSKYHGESEKLVRLLFE
 321 MARFYAPSTIFIDEIDSICSKRGTGSEHEASRRVKSELLI
 361 OMDGVSGPSAGEESSKMVMVLAATNFPWDIDEALRRRLEK
 401 RIYIPLPEIDGREQLLRINLKEVPLADDIDLKSIAEKMDG
 441 YSGADITNVCRDASMMAMRRRIOGLRPEEIRHIPKEELNQ
 481 PSTPADFLLALQKVSKSVGKEDLVKYMAMWMEEFGSV

FIG. 1A.

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Table 1. Mean values of the variables measured during the 60-min test

	Mean ± SD
Age (years)	27.9 ± 1.8
Height (cm)	178.5 ± 6.5
Weight (kg)	75.2 ± 12.5
VO _{2max} (l·min ⁻¹)	3.6 ± 0.4
VO ₂ at rest (l·min ⁻¹)	1.2 ± 0.2
VO ₂ at 30 min (l·min ⁻¹)	2.8 ± 0.3
VO ₂ at 60 min (l·min ⁻¹)	2.5 ± 0.3
HR at rest (beats·min ⁻¹)	72 ± 10
HR at 30 min (beats·min ⁻¹)	155 ± 15
HR at 60 min (beats·min ⁻¹)	145 ± 15
RPE at 30 min	12.5 ± 1.5
RPE at 60 min	11.5 ± 1.5
Time to exhaustion (min)	60 ± 5

231	p60	VHWADIA	GLTEAR	LLLEAV	VLPL	LWMPDY	FKGIFPW	KGV	MV	GPPG	TG			
190	mei-1	MSLDD	II	GMHDV	KQVL	HEAV	TLPL	LV	PEFF	QGLRSPW	KAMV	L	AGPPG	TG
145	Suglp	STYDMV	GLTKQ	IK	KEIV	ELV	EVK	HEI	FESL	GIAQPK	GV	ILY	GPPG	TG
149	ftsh	TTFADVA	CCDEAK	EEVA	ELVEY	LREPSR	FQ	KLGG	KEPK	GV	MV	GPPG	TG	
694	PASlp	IKWGD	IGALANA	KDVL	LE	TLEW	PTKYEPI	EVN	CPLRLR	SG	ILY	GV	P	G
224	NSF	EKMGI	GGDLK	EFSD	IFRRA	FASRV	FP	PEI	VEQM	GCKHV	KG	ILY	GPPG	G
280	p60	KTMLAKA	VA	TECGT	TFN	VSSAS	LT	SR	KYHGE	SEKIV	RL	LF	EMAR	FYAP
239	mei-1	KTLLAP	AIA	SESS	TFTF	VSS	TD	LSS	KWRG	DD	SEKIV	RL	LF	ELARFYAP
195	Suglp	KTLLAP	AVA	HHTD	CKTIR	VSGAEL	VQ	YI	EG	SRM	VR	ELF	V	MAREHAP
198	ftsh	KTLLAKA	IAGE	AKV	PFTT	TSGSD	F	VEM	FV	GV	ASR	VR	DM	FE
744	paslp	KTLLASA	VA	QO	CLNEIS	VKGPE	IL	NKF	IG	ASE	NT	REL	FER	AQSVKP
274	NSF	KTLLARQ	IG	KMLN	AREPKV	VNG	PEIL	KYV	GESE	ANIR	KLF	AD	A	EEEEQRR
328	p60	.....	STIF	I	DEID	S	CSKR	..	GTG	SE	HEAS	RR	VK	SE
287	mei-1	.....	SIIF	I	DEID	T	LGQR	..	GNS	GE	HEAS	RR	VK	SE
243	Suglp	.....	SIIF	ME	DEID	S	GSTR	VE	GSG	GD	SEVQ	RT	ML	ELN
246	ftsh	.....	CIIF	I	DEID	AV	GRQ	GAG	LG	GH	D	EREQ	T	NQ
792	Paslp	.....	CIIF	DE	FE	DS	IAP	KRGH	...D	STG	VT	D	RV	NQ
324	NSF	LGANS	GLH	I	I	FEID	EA	I	CKQ	RGS	MA	STG	V	HD
369	p60	SAGE	SSK	MV	ML	A	ATN	F	PWD	I	DE	AT	RR	..
324	mei-1	SONK	FDS	RR	V	ML	A	ATN	F	PWEI	DE	AL	RR	..
285	Suglp	.....	SKNI	KI	I	MAT	N	RLD	I	I	D	PAL	R	GR
288	ftsh	.....	NEGII	I	I	AAT	N	R	P	D	V	L	D	P
832	Paslp	D.....	GVYI	LA	AT	S	R	P	D	I	S	AL	R	P
373	NSF	N.....	NI	I	G	M	T	N	R	P	D	I	D	E
417	pp60	RINL	.....	KEVP	ADD	I	I	L	K	S	I	A	E	K
372	mei-1	EKSM	.....	EGTP	K	S	D	E	I	N	Y	D	D	I
329	Suglp	RIHS	.....	.....	TR	G	I	N	L	R	K	V	A	E
332	ftsh	KVHM	RR	V	P	I	A	D	I	A	A	I
875	paslp	QAI	VNS	K	D	K	D	T	G	O	K	F	A	E
416	NSF	HI...	HT	A	R	M	R	G	H	Q	..	L	S	A

FIG. 1B.

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1 MATKRAWKLOELVAHSSNVNCLALGPMMSGRVMVTGGEDKK
 41 VNLWAVGKQNCIISLSGHTSPVDSVKFNSSEELVVAGSQS
 81 GTMKIYDLEPAKIVRTLTGHRNSIRCMDFHPFGEFVASGS
 121 TDTNVKLWDVRRKGCIYTYKGHSDQVNMIKFSPDGKWLVT
 161 ASEDTTIKLWDLTMGKLFQEFKNHTGGVTGIEFHPNEFLL
 201 ASGSSDRTVQFWDLETFQLVSSTSPGASAVRSISFHPDGS
 241 YLFCSSQDMLHAFGWEPIRCFTFSVFWGKVADTVIASTQ
 281 LIGASFNATNVSVYVADLSRMSTTGIAOEPOSQPSKTPSG
 321 GAEVPSKPLTASGRKNEVRERPHTTSSKQRQPDVKSEPE
 361 ROSPTQDEGVKDDDATDIKDPDSYAKIFSPKTRVDHSPER
 401 NAQPFPAPLDVPGAOEPEPFKHPPKPAAAAAVAPVSRAPA
 441 PSASDWOPAOANPAPNRVPAATKPVPAQEVAPSRKPDPIS
 481 TIIPSDRNKPANLMDAFLPPAHAAOAPRVNAPASRKOSD
 521 SERIEGLRKGHDSMCOVLSSRHRNLDVVRAIWTAGDAKTS
 561 VESVVMKDQAILVDILNIMLLKKSLWNLDMCVVVLPRLK
 601 ELLSSKYENYVHTSCACLKILKNFTSLFNQNIKCPPSGI
 641 DITREERYNKCSKCYSYLIATRGYVEEKQHVSGKLGSSFR
 681 ELHLLLDQLE

FIG. 2A.

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Sp p80 4 KRAWKLQELVAHSSNVNCLALGEMSGRVMVTGGEDKKVNLWA
Hs p80 8 KTAWKLOEIIVAHASNVSSLVLGKASGRLLATGGDDCRVNLWS
Hs TFIID 531 KTASELKILYGHSGPVGAFSP.DRNYLLSSSEDGTVRLWS
Tc Pkwa 489 ASGDELHTLEGHTDWRVAVAFSP.DGALLASGSDDATVRLWD

Sp p80 46 VGRKNCIIISLSGHTSPVDSVKENSSEELVVAGSQSGTMKIYD
Hs p80 50 INKPNCIMSLTGHSTPVESVRLNTPEELIVAGSQSGSIRVWD
Hs TFIID 572 LQFTTCLVGYKGHNYPVWDTQFSPYGYFVSGGHDRVARLWA
Tc Pkwa 530 VAAAEERAVFEGHTHYVLDIAFSPDGSMVASGSRDGTARLWN

Sp p80 88 LEPAKIVRTLTGHRNSIRCMDFHPEGEFVASGSTDTNVKLWD
Hs p80 92 LEAAKILRTIMGLKANICSLDFHPYGEFVASGSQDTNIKLWD
Hs TFIID 614 TDHYQPLRIFAGHLADVNTREHPNSNYVATGSADRTVRLWD
Tc Pkwa 572 VATGTEHAVLKGHTDYVYAVAFSPDGSMVASGSRDGTIRLWD

Sp p80 130 VRRKGCIIYTYKGHSQVNMIFSPDGKWLVTASEDTTHIELWD
Hs p80 134 IRRKGCVFRYRGHSQAVRCIRFSPDGKWLASAADDHTVELWD
Hs TFIID 656 VLNGNCVRIFTGHKGP IHSLEFSPNGRFLATGATDGRMILLWD
Tc Pkwa 614 VATGKERDVLQAPAENVSLAFSPDGSMVLVHG.SDSTVHLWD

Sp p80 172 LTMGKLFQEFKNHTGGVTGIEFHPNEFLLASGSSDRTVQFWD
Hs p80 176 LTAGKMMSEFPGHTGPVNVVEFHPNEYLLASGSSDGTIREWD
Hs TFIID 698 IGHGIMVGELKGHTDTVCSLRFSDRGEILLASGSMNTVRLWD
Tc Pkwa 655 VASGEALHTFEGHTDWRVAVAFSEEDGALLASGSDDRTIRLWD

Sp p80 214 LETFQLVSSITSPGASAVRSISFHPDGSYLFCSSQDMLHAFGWE
Hs p80 218 LEKFQVSRIEGEPGVRSVLFNPDGCCLYSGQDLSLRVYGWE
Hs TFIID 740 AIKAFEDLETDDFTTATGHINLPENSQELLIGTY..MTKSTPV
Tc Pkwa 697 VAAQEEHTTLEGHTPEVHSVAFHPEGTTLASASEDGTIRIWPI

FIG. 2B.

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000001-000000

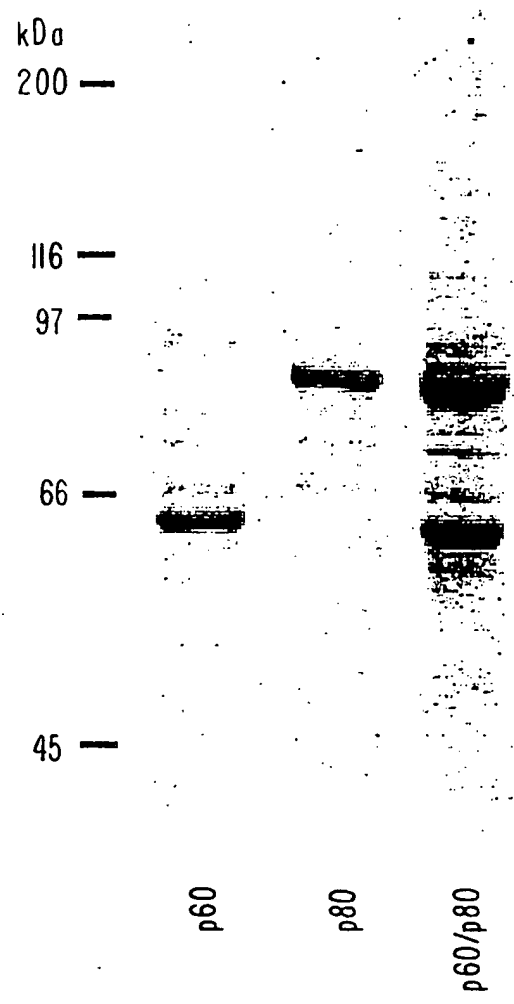


FIG. 3A.



FIG. 3B.

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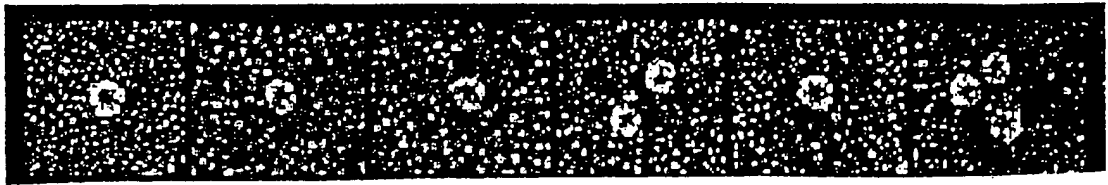


FIG. 4A.

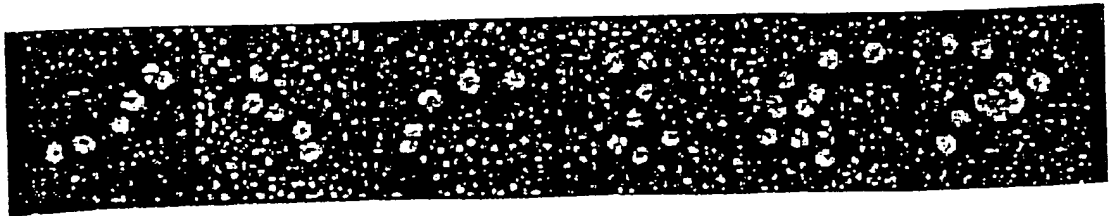


FIG. 4B.

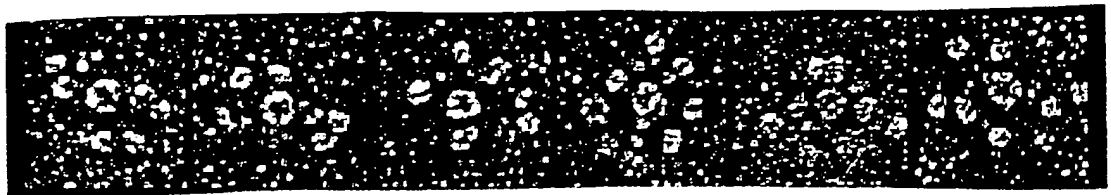


FIG. 4C.

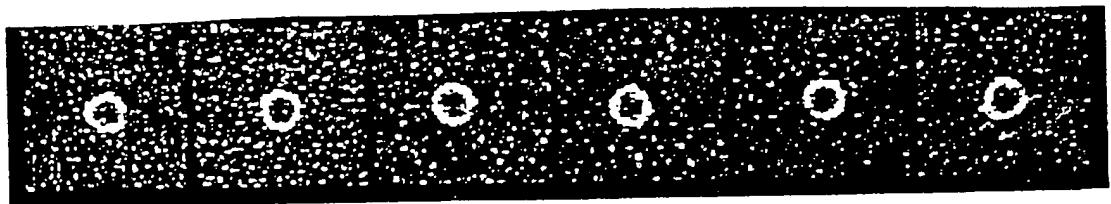


FIG. 4D.

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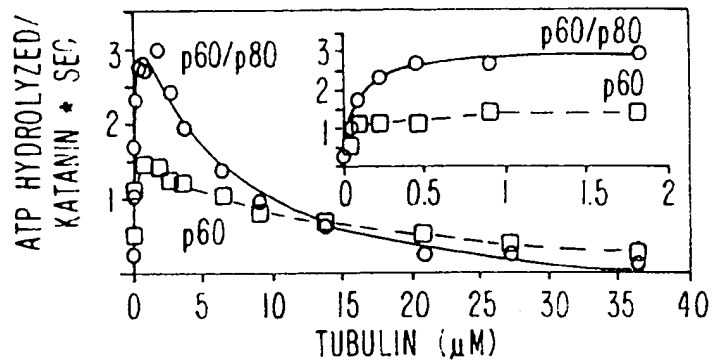


FIG. 5A.

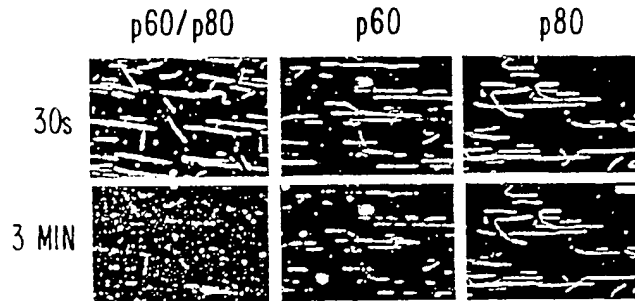


FIG. 5B.

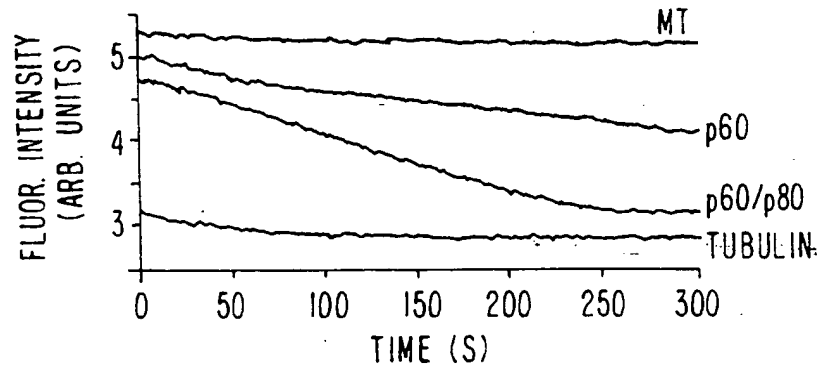


FIG. 5C.

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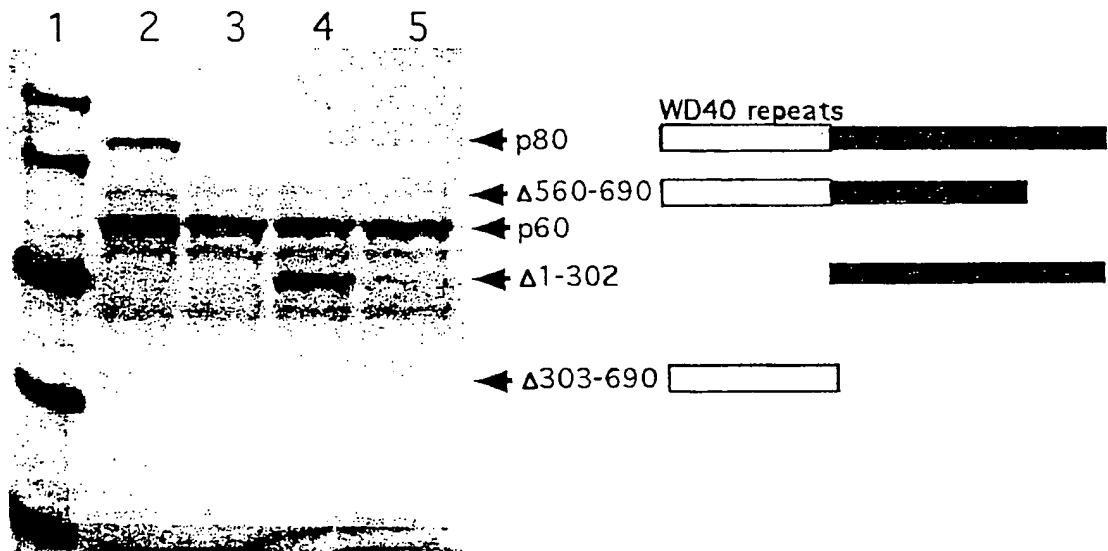


FIG. 6.

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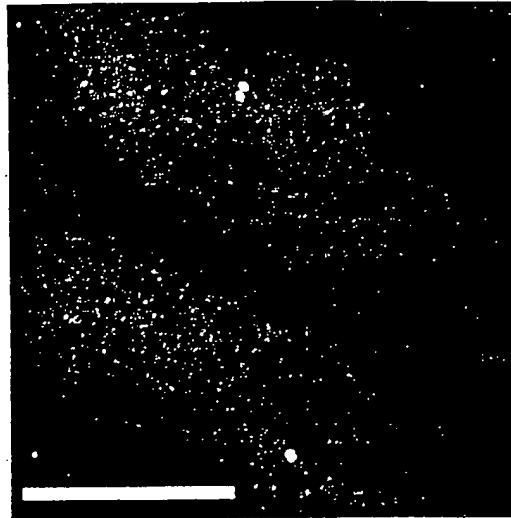


FIG. 7A.

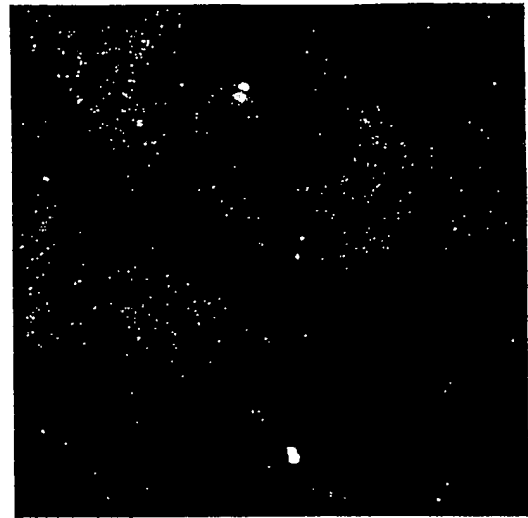


FIG. 7B.



FIG. 7C.



FIG. 7D.

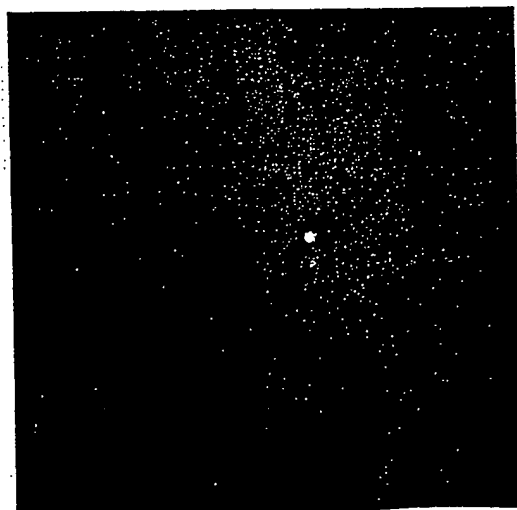


FIG. 7E.

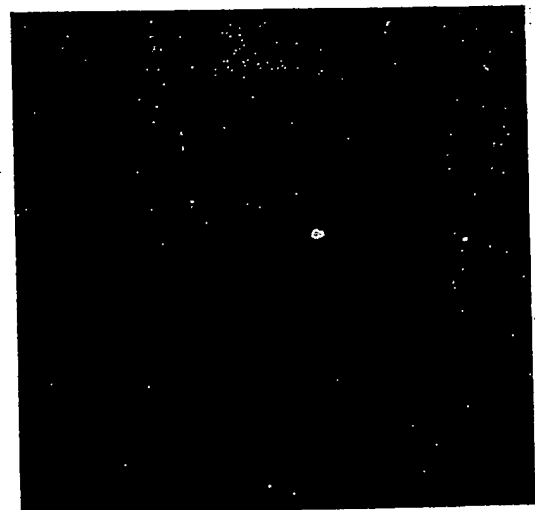


FIG. 7F.

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